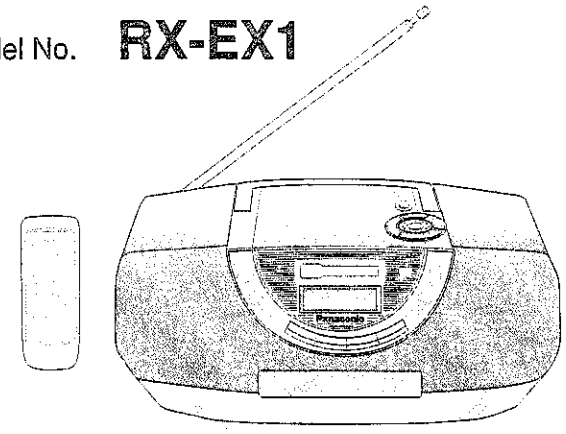
Panasonic®

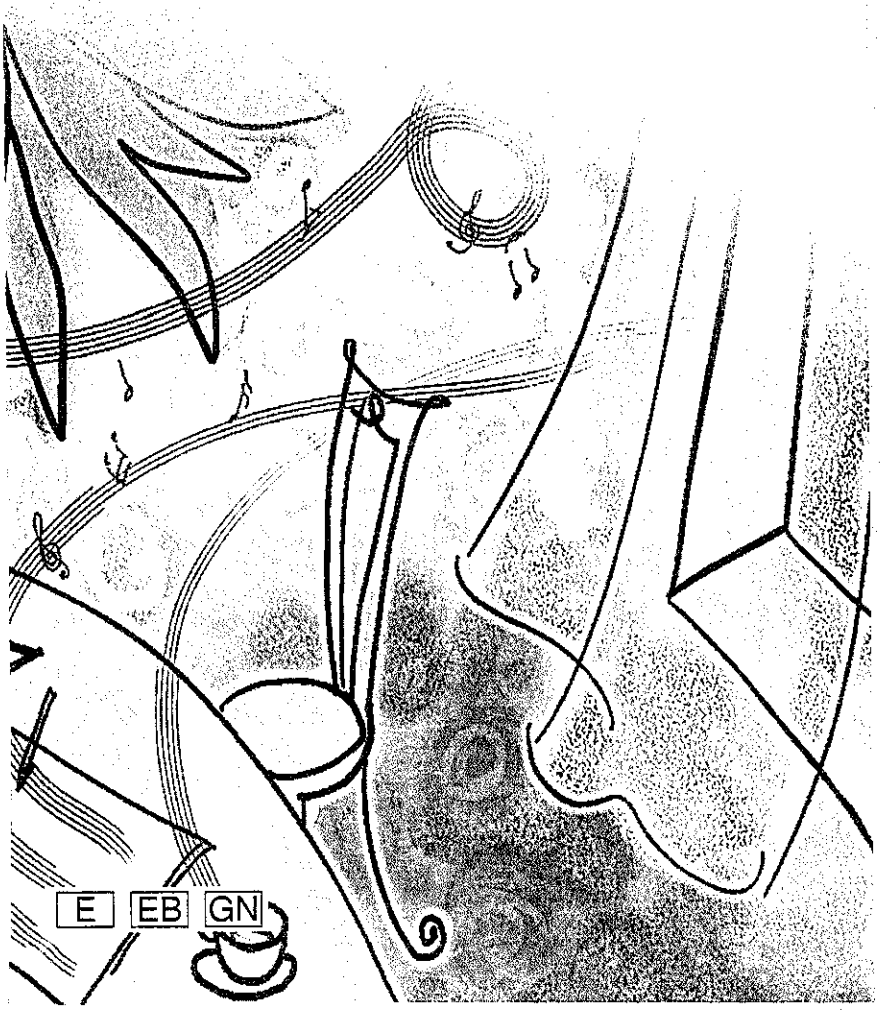
Portable Stereo CD System

Operating Instructions

Model No. **RX-EX1**



COMPACT disc DIGITAL AUDIO



Note:
"EB" on the packaging indicates the United Kingdom.

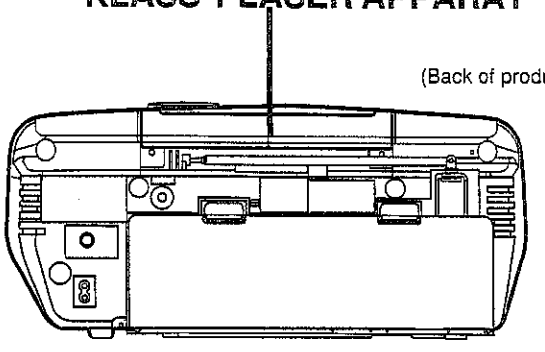
Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

RQT5677-B

CLASS 1
LASER PRODUCT

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

(Back of product)



DANGER	INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.	(Inside of product)
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.	(Indersiden at apparatet)
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.	(Tuotteen sisällä)
VARNING	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.	(Apparatens insida)
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.	(Produktets innside)
VORSICHT	UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.	(Im Inneren des Gerätes)

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPLIANCE TO RAIN, SPLASHING, DRIPPING OR MOISTURE.

SUOMI

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VAROITUS:

TULIPALO-, SÄHKÖISKUVAARAN TAI MUUN VAHINGON VÄHENTÄMISEKSI EI LAITETTA SAA ALTISTAA SATEELLE, ROISKEELLE, VESIPISAROILLE TAI KOSTEUDELLE.

Dear customer

Thank you for purchasing this product.
For optimum performance and safety, please read these instructions carefully.

Table of contents

Before use

Caution for AC Mains Lead 3
Supplied Accessories 4
Precautions 4
Power Sources 5
Memory Back-up Batteries 5
Location of Controls 6
The Remote Control 7
Setting the Time 8
Using Headphones 8
Maintenance 8

Listening

CDs 9
The Radio: manual tuning 12
The Radio: preset tuning 13
Cassettes 14

Recording

Before Recording 14
Recording CDs 15
Recording the Radio 17

Sound Quality

Harmonic Enhancer Sound 17
3D sound with the Sound Virtualizer 17
Sound Quality 17

Timer

Using the Timer 18
The Sleep Timer 19
The Timer Fader 19

Reference

Troubleshooting ..... **Back cover**
Technical Specifications ..... **Back cover**

NORSK

ADVARSEL!

DETTE PRODUKTET ANVENDER EN LASER.
BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVENT I DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING.
DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å REPARERE APPARATET PÅ EGENHÅND. ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

ADVARSEL:

FOR Å REDUSERE FAREN FOR BRANN, STRØMSJOKK ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, VANNSPRUT, VANNDRÅPER ELLER FUKTIGHET.

Caution for AC Mains Lead

(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ⓚ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

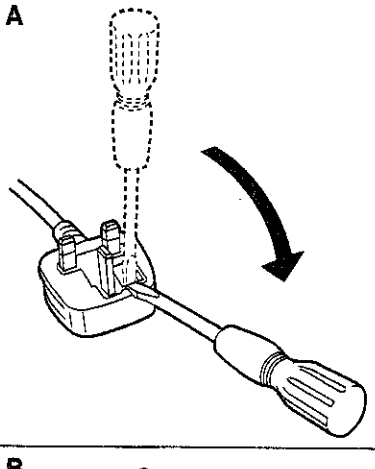
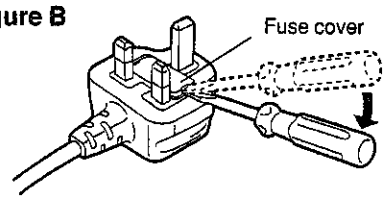


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

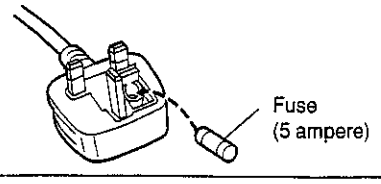
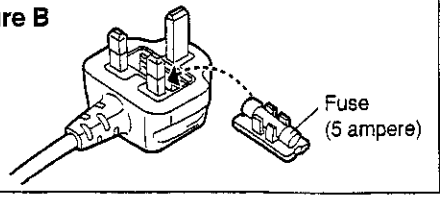


Figure B

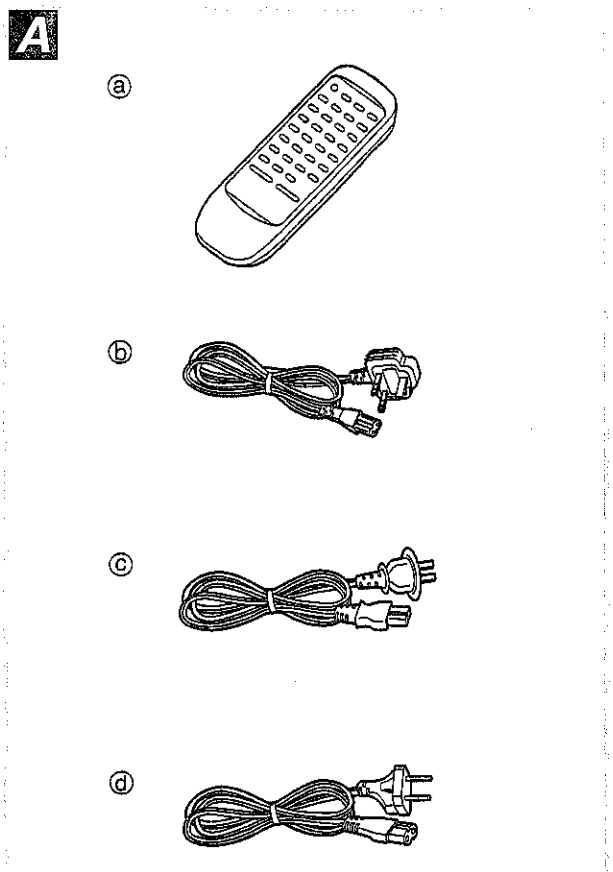


A Supplied Accessories

Please check and identify the supplied accessories.
Use numbers indicated in parentheses when asking for replacement parts.

ⓐ Remote control (RAK-RX979WK) ..... 1 pc.
AC mains lead ..... 1 pc.
ⓑ (For United Kingdom: VJA0733)
ⓒ (For Australia and New Zealand: RJA0035-X)
ⓓ (For others: RJA0019-2K)

Note
The included AC mains lead is for use with this unit only. Do not use it with other equipment.



Precautions

- Avoid using or placing this unit near sources of heat. Do not leave it in an automobile exposed to direct sunlight for a long time with the doors and windows closed as this may deform the cabinet.
- Avoid cuts, scratches, or poor connections in the AC mains lead, as they may result in possible fire or electric shock hazard. Also, excessive bending, pulling or splicing of the cord should be avoided.
- Do not unplug the AC mains lead by pulling on the cord. To do so may cause premature failure or shock hazard.
- Do not operate this unit on AC power in a bathroom, as a potential shock hazard may result.
- When not in use, disconnect the AC mains lead from the household mains socket.

CAUTION!
DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING.

Use of batteries

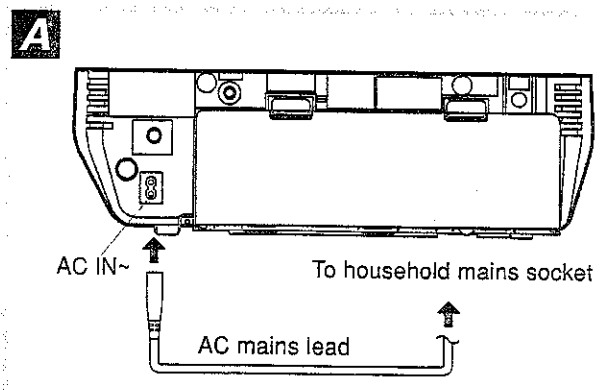
- **If this unit is not used for a long period of time or is used only from an AC power source, remove all the batteries to prevent potential damage due to possible battery leakage.**
- Align the poles (+ and –) properly when inserting the batteries.
- Do not mix old and new batteries or different types of batteries.
- Do not recharge ordinary dry cell batteries.
- Do not heat or disassemble the batteries. Do not allow them to contact flame or water.
- Do not keep together with metallic objects such as necklaces.
- Do not use rechargeable type batteries.
- Do not use batteries if the covering has been peeled off.

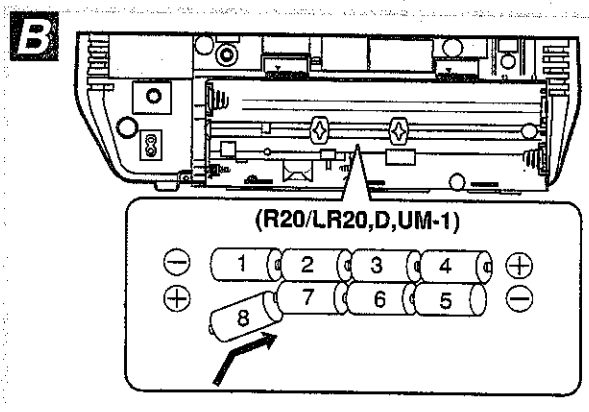
Mishandling of batteries can damage other items, cause damage to the unit, and may cause a fire through short-circuiting or electrolyte leakage.
If electrolyte leaks from the batteries, consult your dealer.
Wash thoroughly with water if electrolyte comes in contact with any part of your body.

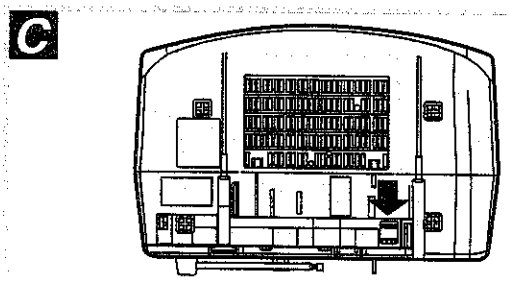
SUOMI

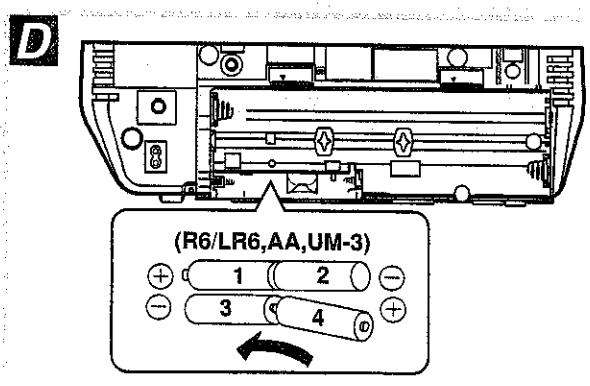
VAROITUS!
ÄLÄ ASENNA TAI LAITA TÄTÄ LAITETTA KABINETTITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNA TUULETUSTA, JOTTA VÄLTETTÄISIIN YLIKUUMENEMISESTA JOHTUVA SÄHKÖISKU- TAI TULIPALOVAARA.

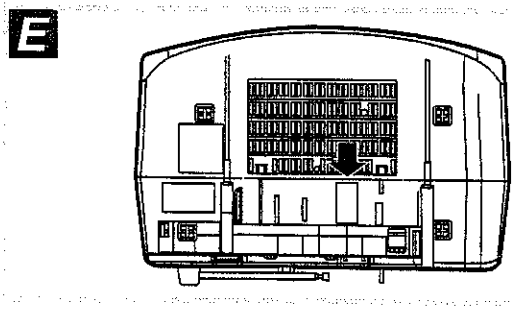
ADVARSEL!
APPARATET MÅ IKKE PLASSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONSFORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.











A Operating the unit on AC power

FOR UNITED KINGDOM ONLY
BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 3 BEFORE CONNECTION.

Connect the AC mains lead.

For U.K., Australia and New Zealand

Marking sign is located on back of the unit.

For Others

Marking sign is located on bottom of the unit.

B Using batteries (not included)

The unit cannot be powered by batteries if the AC mains lead is connected.
The remote control cannot turn the unit on when batteries are used.

C Removing the batteries

Open the battery cover, insert a finger into the hole in the bottom of the unit and push out.

Battery life

"▭" lights when the batteries are running down. Replace all the batteries with new ones.

D Memory Back-up Batteries

Insert these batteries to save the information contained in the memory, such as the clock and timer settings, if there is an interruption to the power supply.
These batteries do not power the unit.

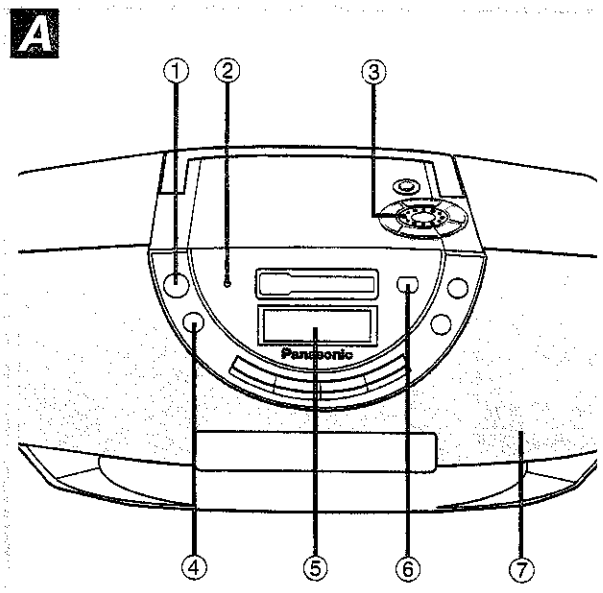
Replacing the batteries

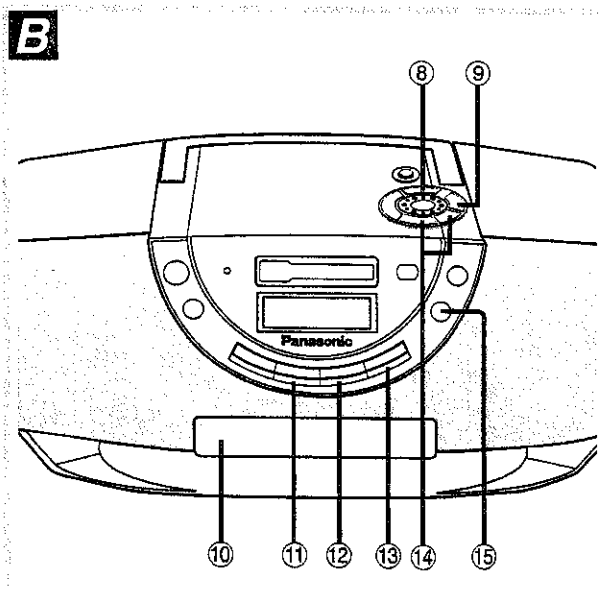
- The memory batteries last about one year.
- Connect the unit to AC power before replacing the batteries.
- Extend the life of the memory batteries by always pressing [⏻/I] to turn the unit off before disconnecting the unit from the AC mains or replacing the power batteries.

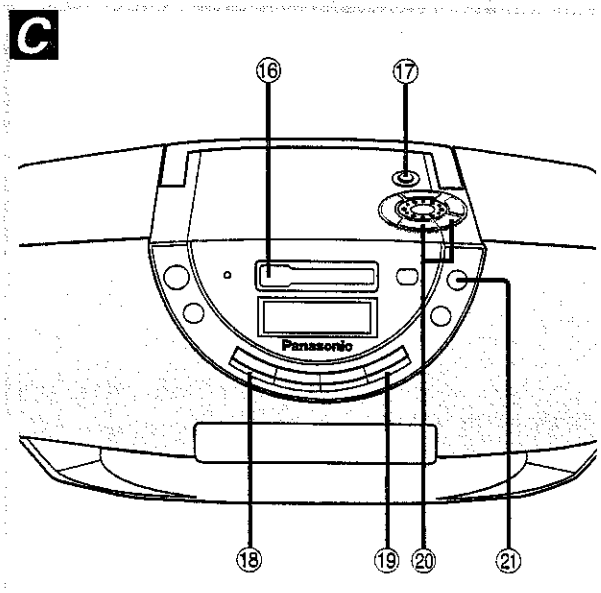
E Removing the batteries

Open the battery cover, insert a finger into the hole in the bottom of the unit and push out.

Location of Controls







A Basic controls

Number	Designation	Reference Page

① **Standby/on switch (⏻/I)** 8
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

② **Standby indicator (⏻)**
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

③ **Volume control (– —VOLUME—+)** 9,12,14
④ **Harmonic enhancer sound (H.E.S)** 17
⑤ **Display panel**
⑥ **Remote control signal sensor (SENSOR)** 7
⑦ **Speaker**

Note
These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or others devices easily influenced by magnetism.

B Tuner/CD controls

Number	Designation	Reference Page

⑧ **CD recording mode button (CD REC MODE)** 16
⑨ **Tune mode (TUNE MODE)** 12,13
⑩ **CD Tray**
⑪ **Band button (TUNER BAND)** 12,13
⑫ **CD play/pause button (▶/II CD)** 9
⑬ **Stop, TAPE/CD mode select button (■ TAPE/CD)** 9
⑭ **Tuning/CD skip/search/track select buttons (REW/–/ ⏮, ⏭ /+/FF)** 9,12,13
⑮ **CD tray open/close button (⏏ CD)** 9

C Cassette deck controls

Number	Designation	Reference Page

⑯ **Deck**
⑰ **Record/record pause button (●/II)** 15–17
⑱ **Cassette play button (▶TAPE)** 14
⑲ **Stop, TAPE/CD mode select button (■ TAPE/CD)** 14
⑳ **Rewind/fast forward buttons (REW/–/ ⏮, ⏭ /+/FF)** 14
㉑ **Tape eject button (⏏ TAPE)** 16

The Remote Control

A Buttons

Number	Designation	Reference Page
㉒	Sleep timer button (SLEEP)	19
㉓	Numbered buttons	10–11,13
㉔	Auto scan button (AUTO SCAN)	12
㉕	Tape counter reset button (C-RESET)	14
㉖	Clock/timer button (CLOCK/TIMER)	8,18
㉗	Play timer/ record timer button (◴ PLAY/REC)	18
㉘	Sound virtualizer button (S.VIRTUALIZER)	17
㉙	Timer fader button (TIMER FADER)	19
㉚	Display select button (DISPLAY)	8,14
㉛	CD Program/clear, tuner preset button (PGM/-CLEAR)	11,13
㉜	CD play mode button (CD PLAY MODE)	10
㉝	FM mode BP button (FM MODE/BP)	12,17
㉞	Equalizer button (EQ)	18

When the unit is supplied with AC power, buttons ❶, ❸, ❹, ⓫ to ⓮ and ⓲ to ⓴ function in the same way as the controls on the main unit. To save power, the unit cannot be turned on from the remote control when batteries are used.

B Batteries (not included)

Insert so the poles (+ and –) match those in the remote control.

Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place.
Replace if the unit does not respond to the remote control even when held close to the front panel.

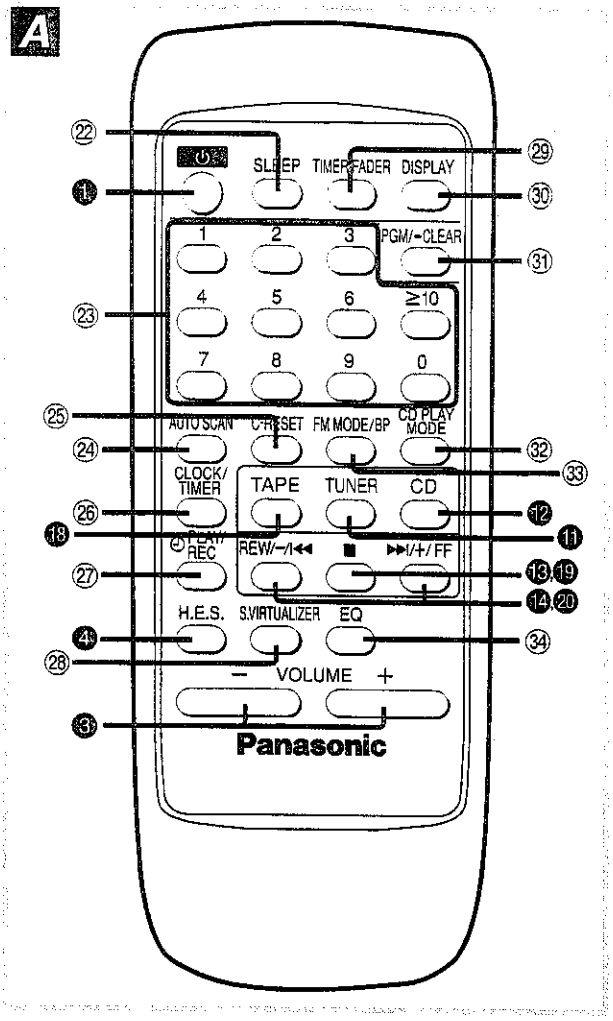
C Use

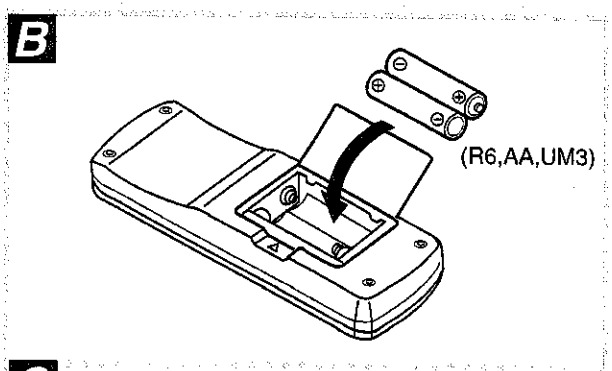
Aim at the sensor, avoiding obstacles, at a maximum range of 7 meters directly in front of the unit.

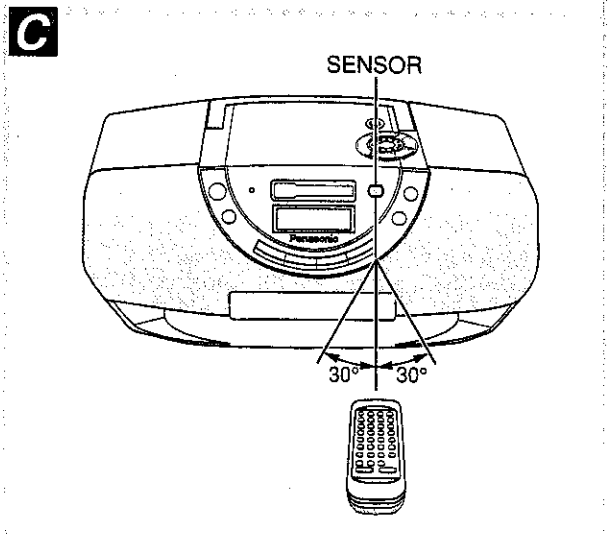
- Keep the transmission window and the unit's sensor free from dust.
- Operation can be affected by strong light sources, such as direct sunlight, and the glass doors on cabinets.

Do not;

- put heavy objects on the remote control.
- take the remote control apart.
- spill liquids onto the remote control.







Setting the Time

This is a twenty-four hour clock.
The example shows how to set the clock to 13:30.

Remote control only

1 **Press [⏻] to turn the unit on.**

2 **Press [CLOCK/TIMER] to select "CLOCK".**
Each time the button is pressed:
→CLOCK→ ON🕒PLAY → OFF🕒PLAY
Original display ←OFF🕒REC ←ON🕒REC

3 **Within 10 seconds**
Press [REW/–/ ⏮] or [⏭ /+/FF] to set the time.

4 **Press [CLOCK/TIMER] to start the clock.**
The original display is restored shortly after.

When batteries are used
The unit cannot be turned on with the remote control.

Note
The clock may lose or gain some time over a period. Readjust if necessary.

A Displaying the clock

Remote control only

Press [DISPLAY].

B Using Headphones (not included)

Reduce volume before connection.
Avoid listening for prolonged periods of time to prevent hearing damage.
Plug type: 3.5 mm stereo

Maintenance

If the surfaces are dirty

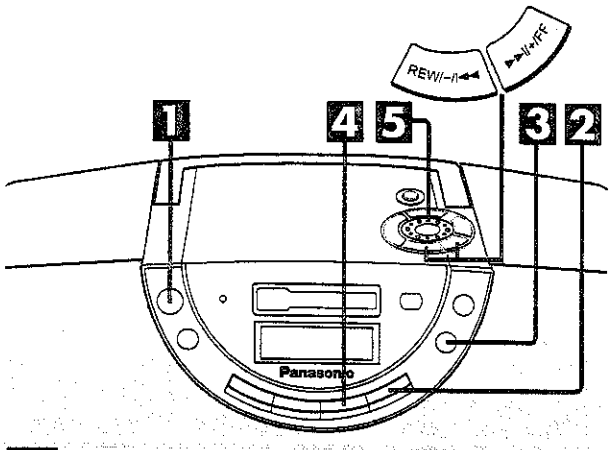
To clean this unit, wipe with a soft, dry cloth.
If the surfaces are extremely dirty, use a soft cloth dipped in a soap-and-water solution or a weak detergent solution.

- Never use alcohol, paint thinner, or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

For a cleaner crisper sound

Clean the heads regularly to assure good quality playback and recording. Use a cleaning tape (not included).

CDs



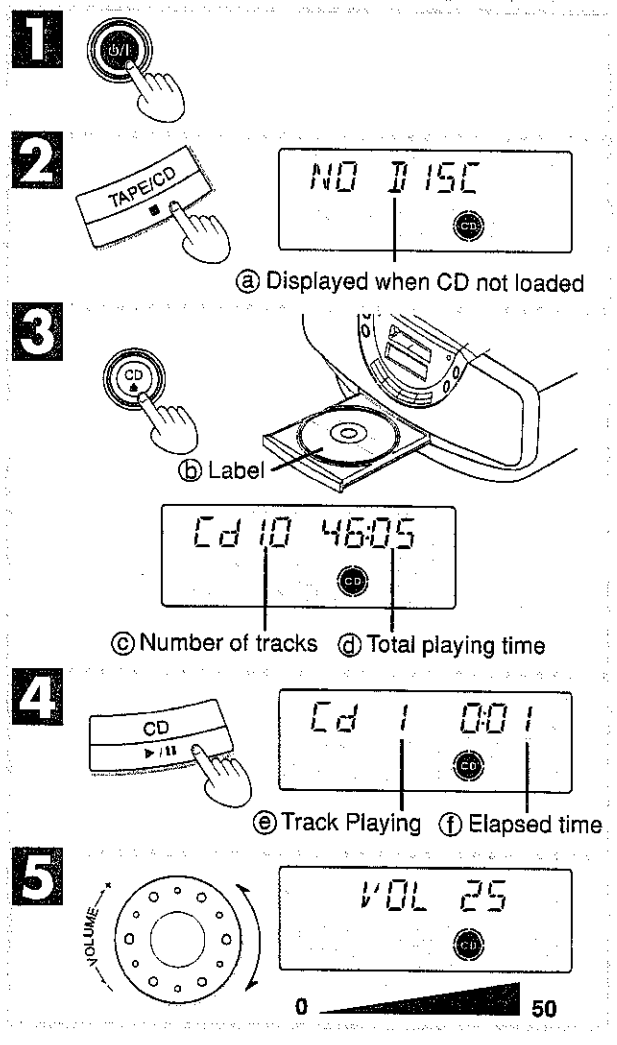
1 **Press [⏻/I] to turn the unit on.**

2 **Press [■ TAPE/CD] to switch to CD mode.**
Each time the button is pressed
TAPE ⇔ CD

3 **Press [▲ CD] to open the tray, load a CD, and press [▲ CD] to close the tray.**

4 **Press [►/II CD] to start play.**
Plays to the end of the CD and stops.

5 **Turn [– —VOLUME—+] to adjust the volume.**



To stop play
Press [■ TAPE/CD].

One touch play (When using AC power)
When a CD is loaded, press [►/II CD].
The unit comes on and play starts.

To pause play
Press [►/II CD] during play.
Press again to resume play.

To skip tracks
Press [REW/–/ I◄◄] (backward) or [►►I /+/FF] (forward).

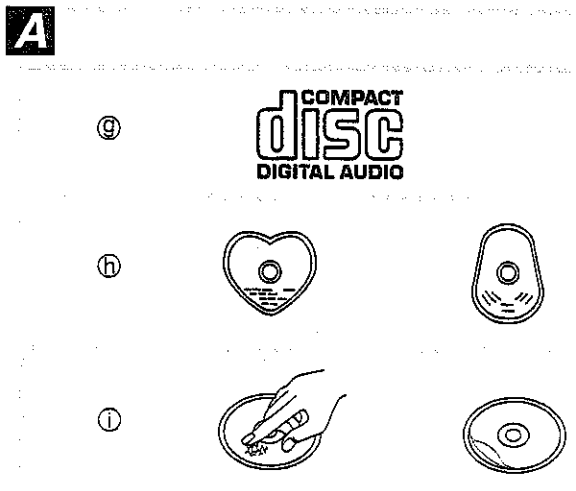
Searching through tracks
Press and hold [REW/–/ I◄◄] (backward) or [►►I /+/FF] (forward) during play.

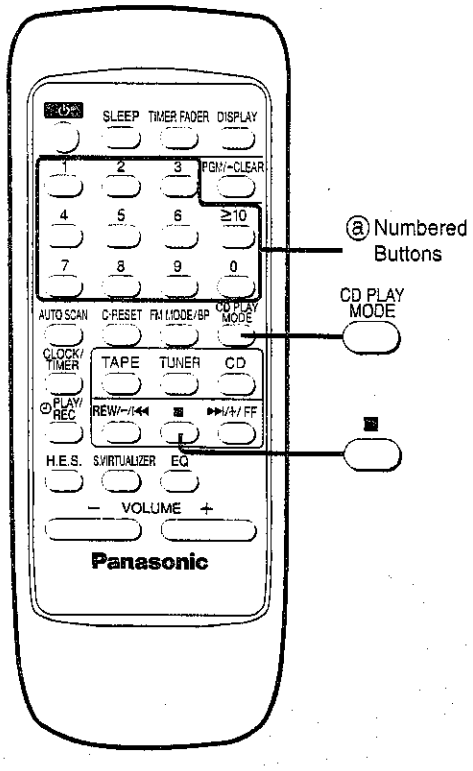
Note
If this unit causes interference to other equipment (radios and televisions) separate it from the equipment.

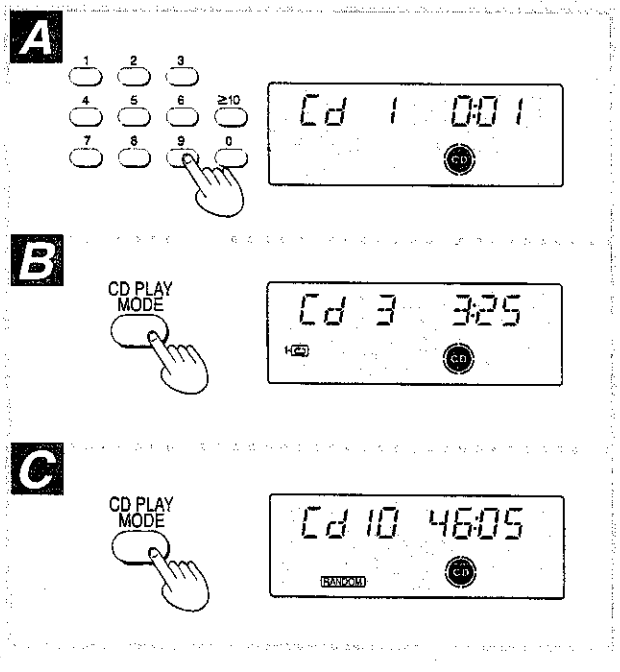
A CD selection

Choose CDs with this mark: (ⓖ)
This unit can play CD-DA format audio CD-R and CD-RW that have been finalized* upon completion of recording.
It may not be able to play some CD-R or CD-RW due to the condition of the recording.
*Finalizing is a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW.

Do not
- use irregularly shaped CDs (ⓗ).
- use CDs with labels and stickers that are coming off or with adhesive exuding from under labels and stickers. (ⓘ)
- attach scratch-proof covers or any other kind of accessory.
- write anything on the CD.
- clean CDs with liquids. (Wipe with a soft, dry cloth.)
- use CDs printed with label printers available on the market.







CDs

Preparation:
Press [■] to switch to CD mode.

Remote control only

A Direct access play
Starts normal play from a selected track

Select the track with the numbered buttons.
For tracks numbered 10 and over, press [≥10] then the two digits.

B Repeat play
Plays a track or all tracks repeatedly

Press [CD PLAY MODE] before or during play to select the mode.
Each time the button is pressed
→ 1-↻ : One track repeated
↓
↻ : All tracks repeated
↓
RANDOM
↓
No display (canceled)
Press **[CD]** to start play if in the stop mode.

To repeat selected tracks
① Start program play (➡ page 11).
② Press [CD PLAY MODE] to select " ↻ ".

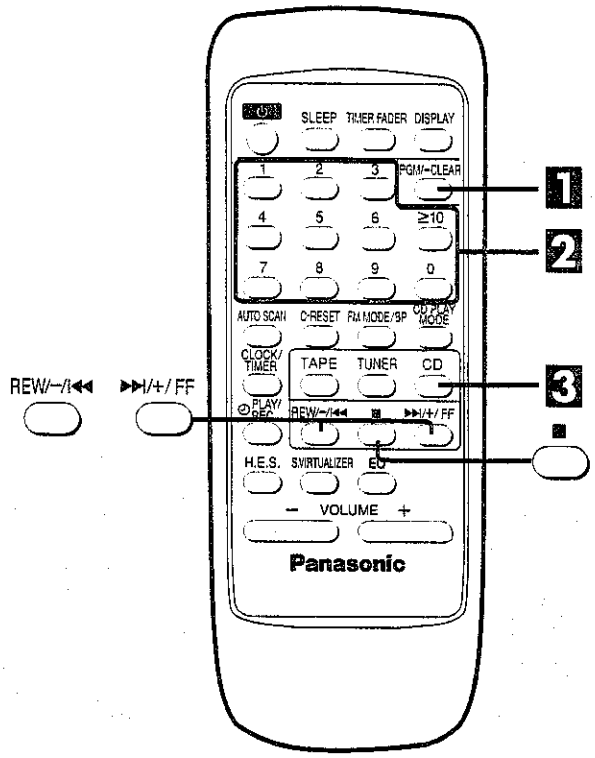
To cancel
Press [CD PLAY MODE] until " 1-↻ " and " ↻ " are cleared.
The mode is also canceled if the CD tray is opened.

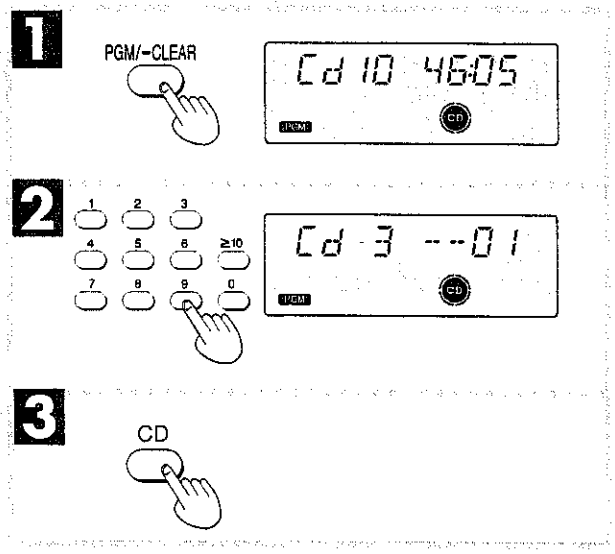
C Random play
Plays the tracks once each in random order

Press [CD PLAY MODE] before or during play to select "RANDOM".
Each time the button is pressed
→ 1-↻ → ↻ → RANDOM → No display (canceled) →
Press **[CD]** to start play if in the stop mode.

To cancel
Press [CD PLAY MODE] to clear "RANDOM".
If canceled during play, play continues to the end of the disc.
The mode is also canceled if the CD tray is opened.

Note
- Random play does not work when "PGM" is displayed (press and hold [PGM/-CLEAR] first).
- Tracks cannot be selected with the numbered buttons.
- You cannot skip to tracks already played.
- Search can be done within the track in play only.





Program play:
Select up to 36 tracks to play in the order you choose

Preparation:
Press [▣] to switch to CD mode.

Remote control only

1 Press [PGM/-CLEAR].

2 Enter the track number with the numbered buttons.
For tracks numbered 10 and over, press [≥10] then the two digits.
Repeat this step to program the tracks in the required order.

3 Press [CD].
All the tracks are played in the selected order.

The program remains intact even if play is stopped or the unit is turned off. "Cd-P" appears when play is stopped to indicate the contents are in the memory.

To cancel
Press and hold [PGM/-CLEAR] in the stop mode until "CLEAR" is displayed.
The mode is also canceled if the CD tray is opened.

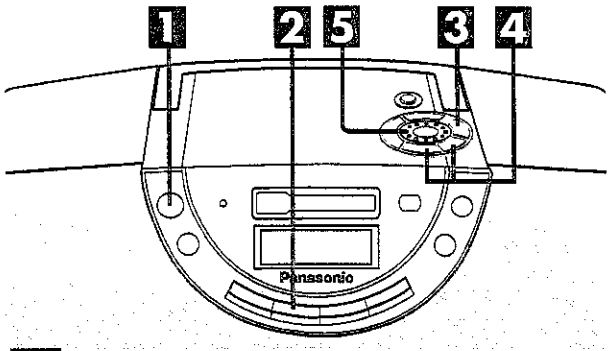
"FULL" is displayed
If more than 36 tracks have been programmed.

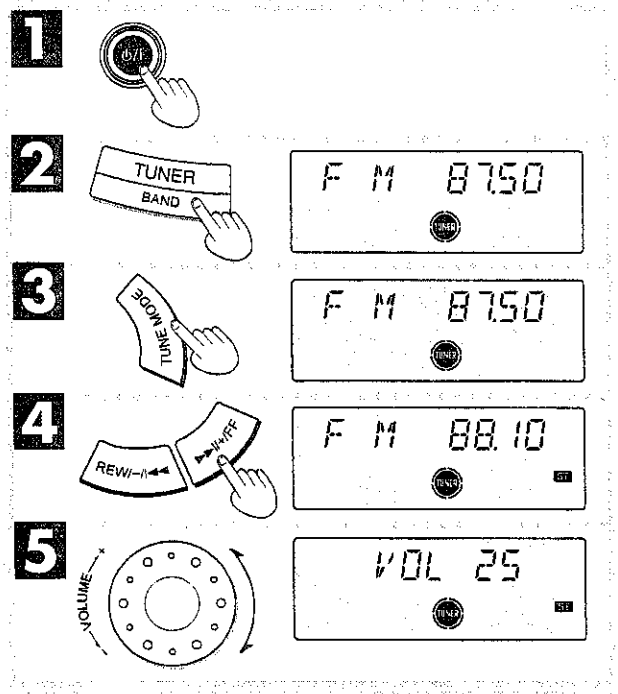
"-- --:-- --" is displayed
If the total play time of the program exceeds 100 minutes. You can still program and play tracks.

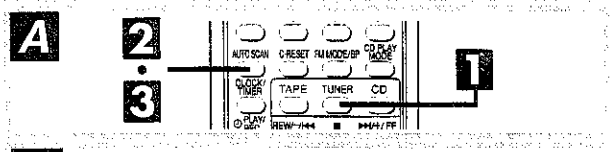
To check the contents of the program
While stopped
Press [REW/–/ I◀◀] or [▶▶I /+/FF].
Each time one of the buttons is pressed, a track and its order in the program are displayed.

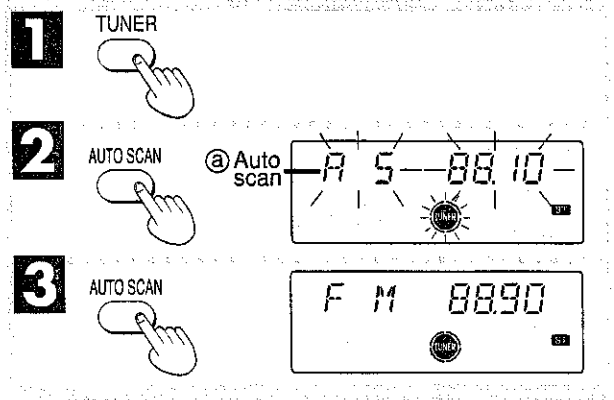
Note

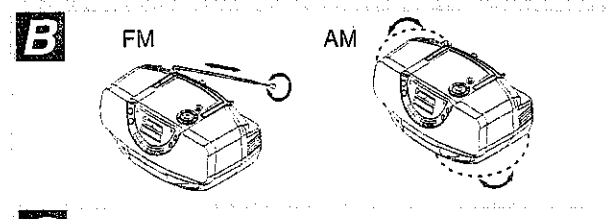
Program play does not work when "RANDOM" is displayed (press [CD PLAY MODE] to clear it) (➡ page 10).
Search can be done within tracks only.

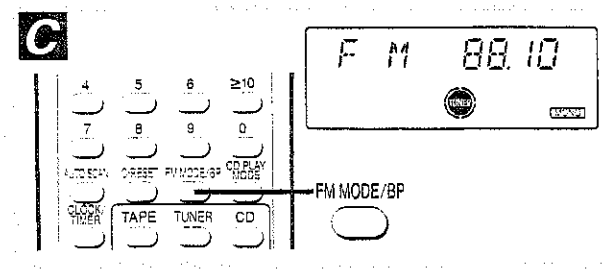












The Radio: manual tuning

1 Press [⏻/I] to turn the unit on.

2 Press [TUNER BAND] to select FM or AM.
Each time the button is pressed
AM ↔ FM

3 Press [TUNE MODE] to select the manual tuning mode.
Make sure that "PGM" is not displayed.

4 Press [REW/–/I◄◄] or [►►I /+/FF] to select a station.
"ST" is displayed during FM stereo broadcasts.

5 Turn [– VOLUME +] to adjust the volume.

Auto-tuning

Press and hold [REW/–/I◄◄] or [►►I /+/FF] until the frequency starts changing rapidly.
Stops when it finds a station. (Interference may also cause it to stop. Start auto-tuning again if this occurs.)
To stop auto-tuning
Press [REW/–/I◄◄] or [►►I /+/FF].

A Using auto-scan

Remote control only

You can search for a station by listening to all tuned-in stations for 8 seconds each.

1 Press [TUNER] to select "FM" or "AM".

2 Press [AUTO SCAN].
Auto scan starts.

3 Press [AUTO SCAN] when you find the desired station.

Auto scan ends when it reaches the original frequency again.
To stop during the process, press **[AUTO SCAN]**.

B To improve reception

FM: Change the length and position of the antenna.
AM: Change the facing of the unit.

Note

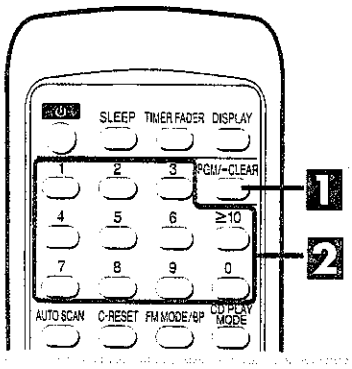
- AM reception is briefly interrupted if a tape deck is operated.
- To improve reception when using the unit in a building or vehicle use it near a window.

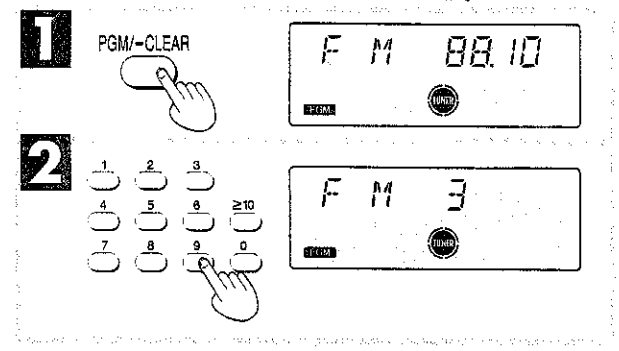
C If noise is excessive in FM

Remote control only

Press [FM MODE/BP] to display "MONO".
Monaural sound is selected ("ST" goes off) and noise reduces when reception is weak.
Press **[FM MODE/BP]** again to cancel the mode.

The Radio: preset tuning





Presetting radio stations

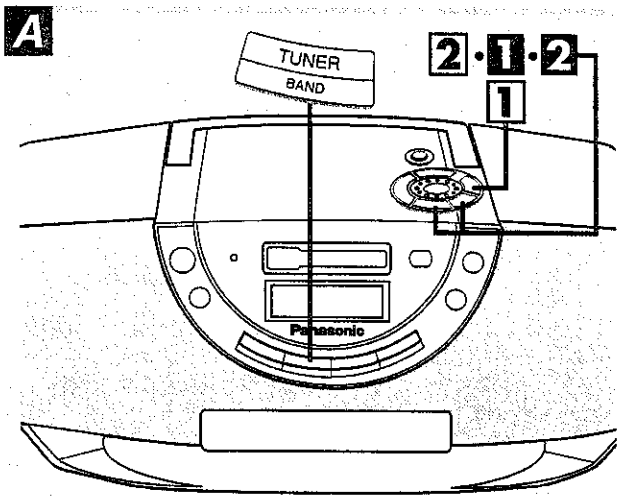
Remote control only

Tuning is simpler if you preset stations.
You can preset 12 FM and 12 AM stations.

Preparation: Tune to the station you want to preset. (➡ page 12)

1 Press [PGM/-CLEAR].

2 While "PGM" is flashing
Press the numbered buttons to enter the station into a channel (1 to 12).
- To enter channels 10, 11, and 12
  Press [10], then the two digits.
- If "PGM" stops flashing
  Press [PGM/-CLEAR] again.



A Selecting channels

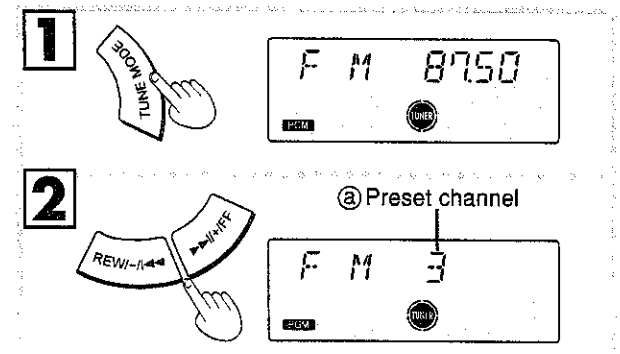
Preparation: Press [TUNER BAND] to select FM or AM.

1 Press [TUNE MODE] to display "PGM".

2 Press [REW/–/ ⏮] or [⏭ /+/FF] to select the channel.

On the remote control

Press the numbered button(s) to select the channel (1 to 12).
To select channel 10, 11 or 12, press **[≥10]**, then the two digits.



Using preset scan

You can search for a station by listening to all preset channels for 8 seconds each.

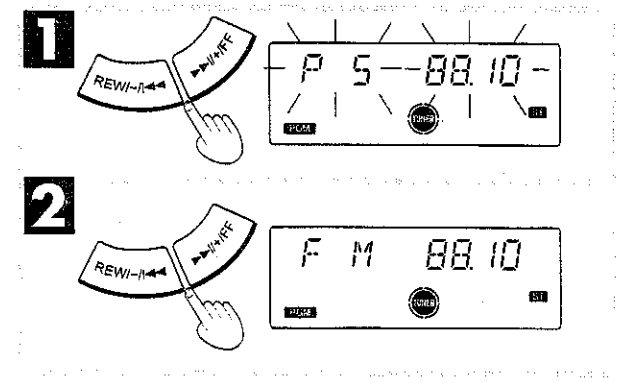
Main unit only

Preparation: Press [TUNE MODE] to display "PGM".

1 Press and hold [REW/–/ ⏮] or [⏭ /+/FF] until "PS" appears on the display.
Preset scan starts.

2 Press [REW/–/ ⏮] or [⏭ /+/FF] when you find the desired channel.

Preset scan ends after searching through each preset channel once.
To stop during the process, press [REW/–/ ⏮] or [⏭ /+/FF]

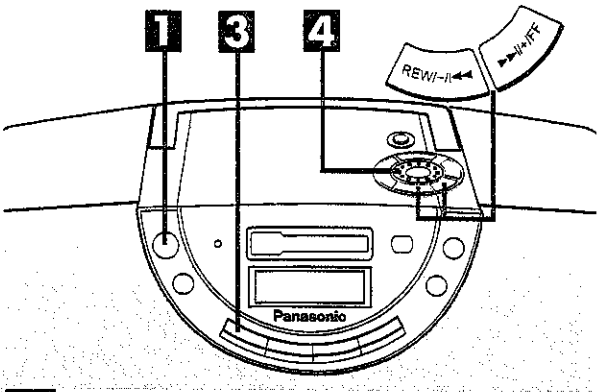


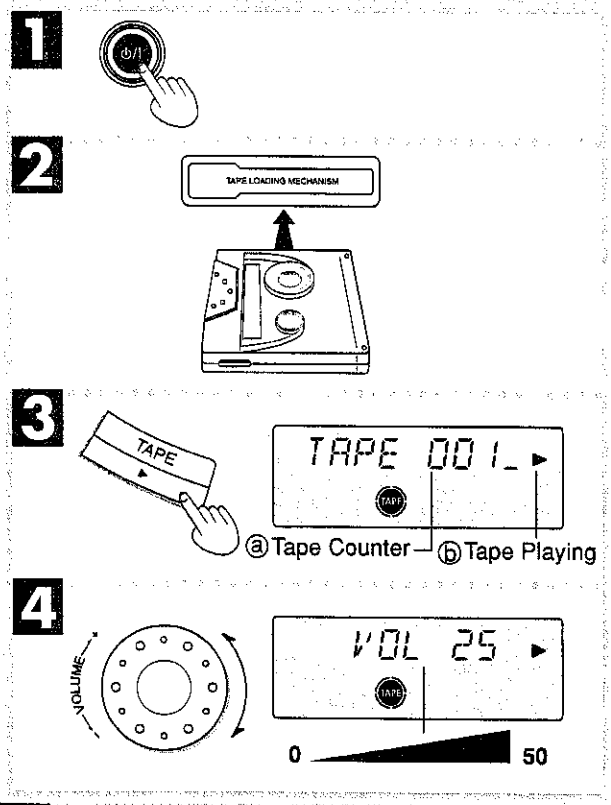
Cancelling a present channel

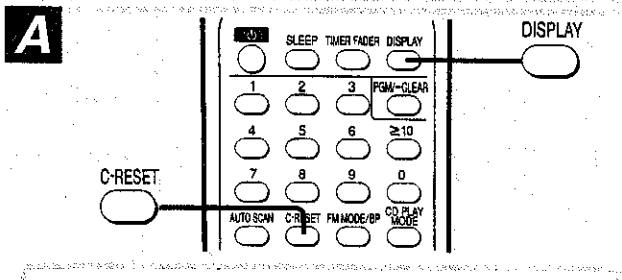
e.g. If channel 3 is not needed.
① Select channel 3.
② Press [PGM/-CLEAR] on the remote control.
③ With 10 seconds
Press [REW/–/ ⏮] or [⏭ /+/FF] so "-- --" is displayed.
④ Press [PGM/-CLEAR] on the remote control.
Now when [REW/–/ ⏮] or [⏭ /+/FF] is pressed, channel 3 is skipped.

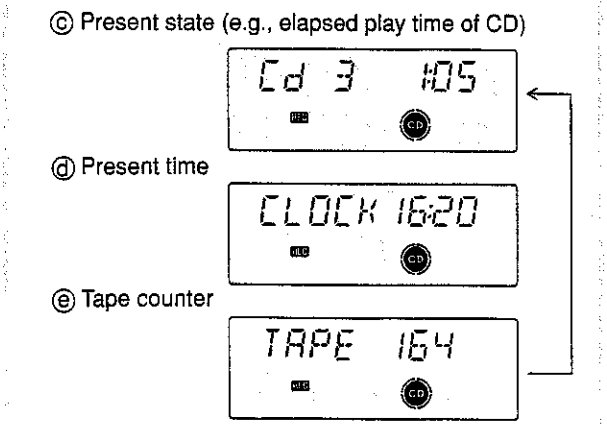
Note

The channel can still be selected with the remote control.









Cassettes

1 **Press [⏻/I] to turn the unit on.**

2 **Insert a cassette into the deck.**
Play starts from the side facing up.

3 **Press [► TAPE] to start play.**

4 **Turn [– —VOLUME—+] to adjust the volume.**

To stop play
Press **[■ TAPE/CD].**

To eject tape
Press **[⏏ TAPE].**

One touch play (When using AC power)
When a cassette is loaded, press **[► TAPE].**
The unit comes on and play starts.

Fast-forward and rewind
Press [REW/–/ I◄◄] (rewind) or **[►►I** /+/FF] (fast-forward).

Selection of tapes
Use normal position tapes to play correctly.
High position and metal position tapes can be played, but the unit will not be able to do full justice to the characteristics of these tapes.

Cassette tape care

- Tapes exceeding 100 minutes are thin and can break or get caught in the mechanism.
- Tape slack can get caught up in the mechanism and should be taken up before the tape is played.
- Endless tapes can get caught up in the deck's moving parts if used incorrectly.

Before Recording

Use household AC power or new batteries when recording, to avoid poor recording caused by the batteries running down.

Television can cause interference to recording made on this unit if the two are too close to each others.

Selection of tapes for recording
Use normal position tapes.
High position and metal position tapes can be used, but the unit will not be able to record or erase them correctly.

Volume and sound quality in recording
- Recording level is set automatically.
- Recording are unaffected by changes to sound quality.

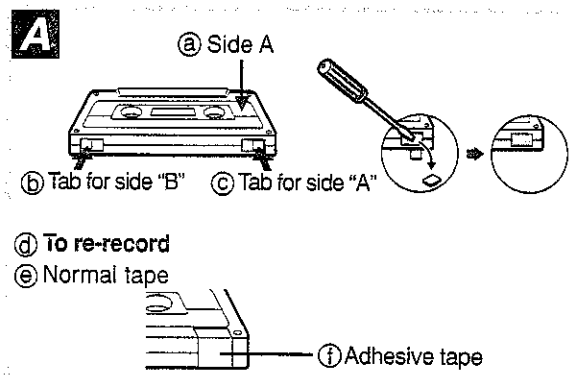
A To display the tape counter while recording

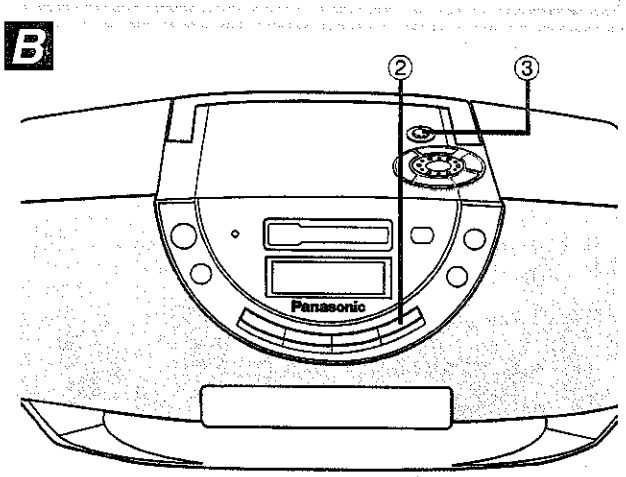
Remote control only

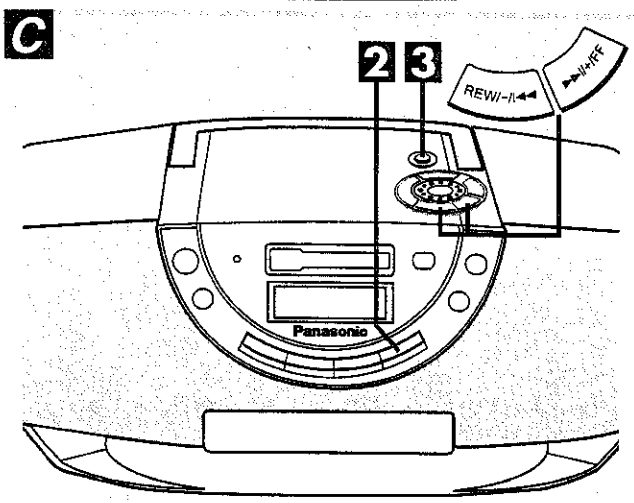
Press [DISPLAY].
Each time you press the button in the CD or radio mode:

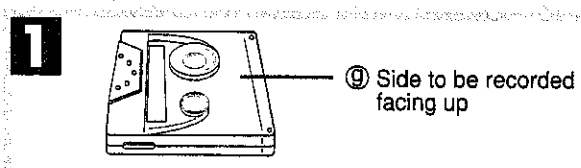
→ ⓒ Present state → ⓓ Present time → ⓔ Tape counter →

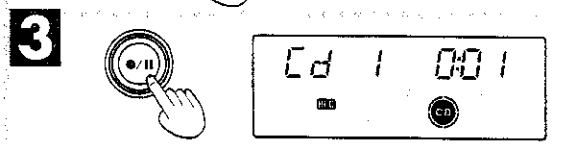
To reset the tape counter
Press **[C-RESET].**
The counter resets to "000".











A Erasure prevention

The illustration shows how to remove the tabs to prevent recording. To record on the tape again, cover as shown.

B Erasing recording

① Insert the cassette with the side to be erased facing up.
② Press **[■ TAPE/CD]** to switch to TAPE mode.
③ Press **[●/II]**.

> Your attention is drawn to the fact that recording pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

C Recording CDs

Preparation:
- Insert a CD (➡ page 9)
- To record from the beginning of the tape
  Wind on the leader tape.

1 Insert a cassette with the side for recording facing up.

2 Press [■ TAPE/CD] to switch to CD mode.
Each time the button is pressed
TAPE ↔ CD.

3 Press [●/II] to start recording.
CD play and recording start at the same time.
The cassette stops when the CD finishes.

To stop recording
Press [■ TAPE/CD].

D To pause recording
Press **[●/II]**.
Press again to resume recording.

To continue recording from another CD on the same tape
① Press [▲ CD] and insert the other CD.
② Press **[●/II]**.
Recording begins from where it stopped.

To record selected tracks
① Do step **1** and **2**, program the tracks (➡ page 11).
② Press **[●/II]**.

To skip unwanted tracks
① Press **[●/II]** to pause recording. (The CD also pauses.)
② Press [REW/–/I◄◄] or [►►I /+/FF] so the next track you wanted to record is displayed.
③ Press **[●/II]** to resume recording.

Recording CDs

You can record the whole CD (ALL-REC) or a selected track(1-REC).

A ALL-REC

Preparation: Insert a CD (➡ page 9)

1 Press [■ TAPE/CD] to switch to CD mode.

2 Press [CD REC MODE] so "ALL-REC" is displayed.
Each time the button is pressed
→ **ALL-REC** → 1-REC → OFF →
The display shows the length of tape needed.
"C-- -- -- --" indicates the tape needed exceeds 100 minutes. You can still record, but some tracks may not be recorded if the tape isn't long enough.

3 Insert a cassette with the side for recording facing up.

4 Press [●/II] to start recording.
The unit rewinds the tape, records 10 seconds of silence, and then starts recording.

To stop recording
Press [■ TAPE/CD]. The CD also stops.

If a track is interrupted at the end of the side facing up
Recording and CD pauses.
To record the track again on the opposite side
1. Press [▲ TAPE], flip the cassette, and insert it.
2. Press [●/II].
The unit records 10-second of silence, and resumes recording from the beginning of the cut-off track.

To record selected tracks
① Program tracks (➡ steps 1 and 2 on page 11).
② Do steps 2 to 4 above.

Note
You cannot use ALL-REC with repeat or random play (➡ page 10).

B 1-REC

Preparation: Insert a CD (➡ page 9) and a cassette. Wind the tape to where you want to start recording.

1 Press [■ TAPE/CD] to switch to CD mode.

2 Press [CD REC MODE] so "1-REC" is displayed.

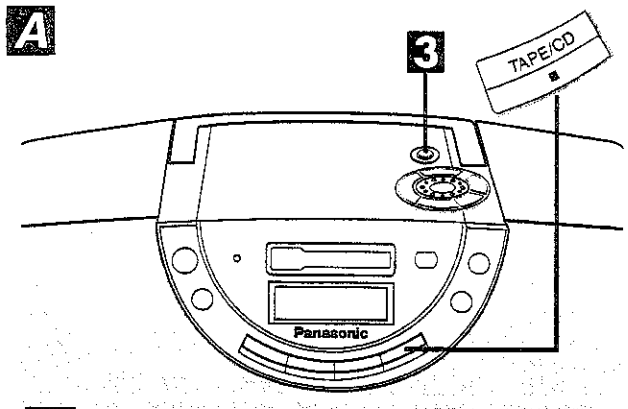
3 Press [REW/–/ ⏮] or [⏭ /+/FF] to select the track you want to record.

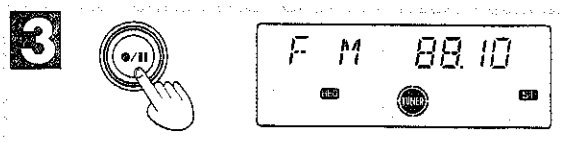
4 Press [●/II] to start recording.
CD play and recording start at the same time.

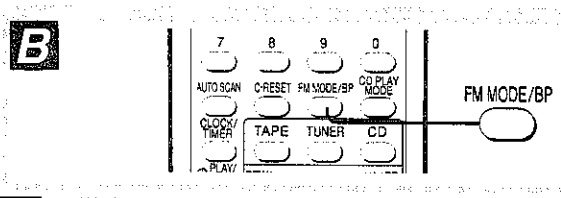
To stop recording
Press [■ TAPE/CD]. The CD also stops.

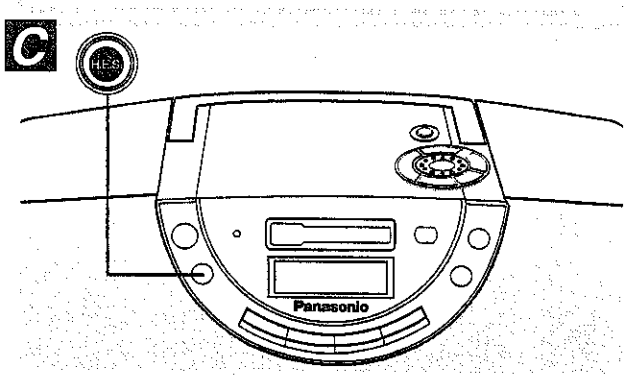
To record a track in play
① Press **[CD REC MODE]** to display "**1-REC**".
② Press **[●/II]**.
Recording starts from the beginning of the track and stops when the track finishes.

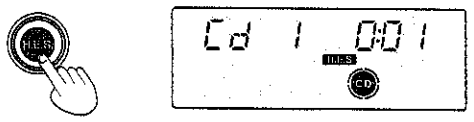
Note
Recording and CD will stop when the tape reaches its end, even if the track has not finished.

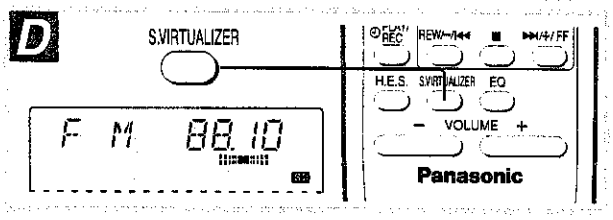


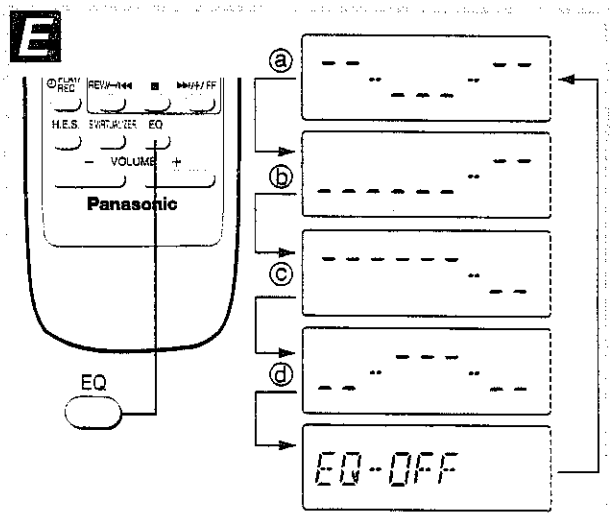












A Recording the Radio

Preparation:
- Wind on the leader tape.
- To record from part way through the tape
  Wind the tape on to where you want to start recording.

1 Insert a cassette with the side for recording facing up.

2 Tune to the station (➡ pages 12 and 13).

3 Press [●/❚❚] to start recording.

To stop recording
Press [■ TAPE/CD].

To pause recording
Press [●/❚❚]. Press again to resume recording.

B Reducing noise when recording AM (Beat Proof function)

Remote control only
Press [FM MODE/BP] while recording.
Each time the button is pressed: bP1 ↔ bP2
Choose the setting with the least noise.

C Harmonic enhancer sound

You can enjoy clear vocal sound.
Press [H.E.S.]
Press again to cancel.

Note
Recordings are unaffected by this feature.

D 3-D sound with the Sound Virtualizer

Remote control only

You can create a three-dimensional sound field when listening to stereo sound.

Press [S.VIRTUALIZER].
Press again to cancel.

Note
Recordings are unaffected by this feature.
The actual effect depends on the source played.

E Sound Quality

Remote control only

You can choose one of four types of sound quality.
ⓐ **XBS:** Adds punch to rock.
ⓑ **Clear:** Clarifies higher sounds
ⓒ **Soft:** For background music
ⓓ **Vocal:** Adds gloss to vocal

Press [EQ] to select a setting.
Each time you press the button:

→ ⓐ XBS → ⓑ Clear → ⓒ Soft → ⓓ Vocal →
EQ - OFF (cancelled) ←

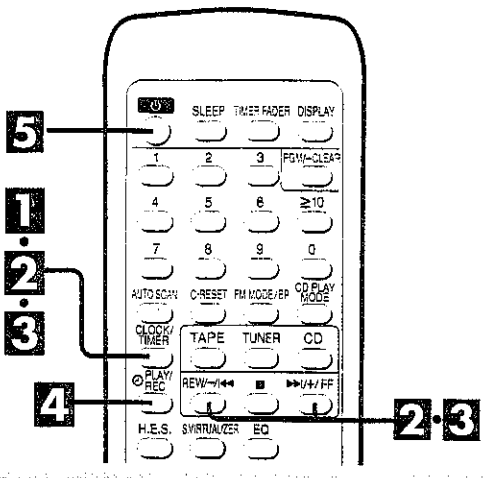
Note
Changes to sound quality do not affect recordings.

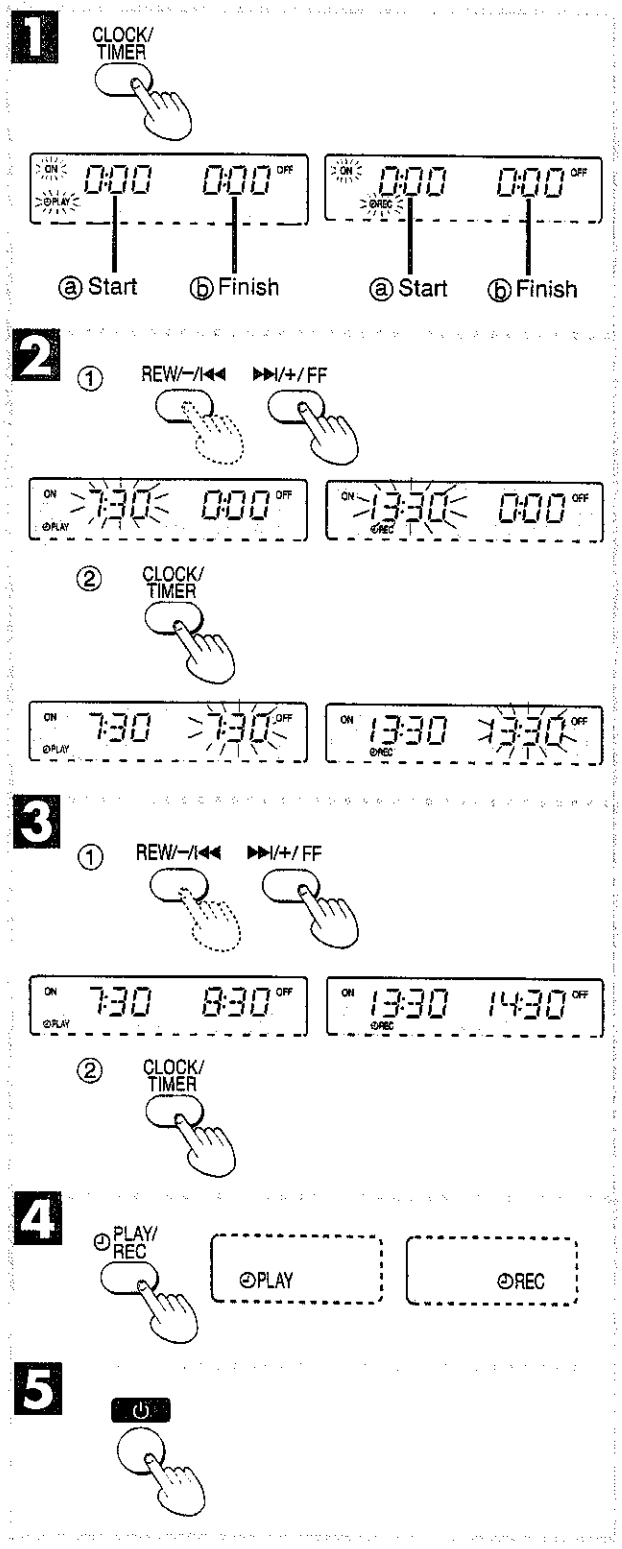
Using the Timer

Remote control only

You can set the timer to come on at a certain time to wake you up (play timer) or record a radio station (record timer).

Preparations:
Turn the unit on and set the clock. (➡ page 8).
- **For play timer**, prepare the music source (tape/CD/radio) for listening, and set the volume.
- **For record timer**, check the cassette's erasure prevention tab (➡ page 15: A) and load the cassette with the side for recording facing up. Tune to the radio station (➡ page 12 to 13), and set the volume.





Setting the start and finish times

1 Press [CLOCK/TIMER] to select the desired timer function.
Each time you press the button:

CLOCK → ON ⏲PLAY → OFF ⏲PLAY → Original display ← OFF ⏲REC ← ON ⏲REC

ON ⏲PLAY: to set the play timer
ON ⏲REC: to set the record timer
Proceed to step 2 before these indicators stop flashing (about 10 seconds).

2 ① Press [REW/–/I◀◀] or [▶▶I /+/FF] to set the start time.
② Press [CLOCK/TIMER].

3 ① Press [REW/–/I◀◀] or [▶▶I /+/FF] to set the finish time.
② Press [CLOCK/TIMER].
The start and finish times are now set.

Turning the timer on

4 Press [⏲PLAY/REC] to display the timer indicator.
Each time you press the button:

⏲PLAY → ⏲REC → no display (off)

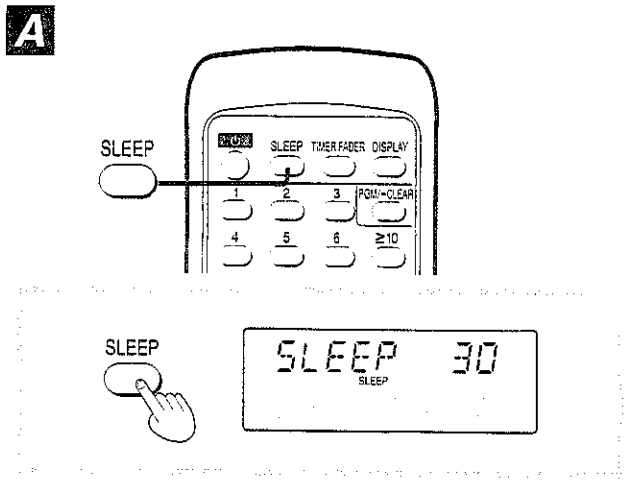
⏲PLAY: to turn the play timer on
⏲REC: to turn the record timer on
(The indicator doesn't appear if the start and finish times haven't been set.)
"E" appears if the clock hasn't been set.

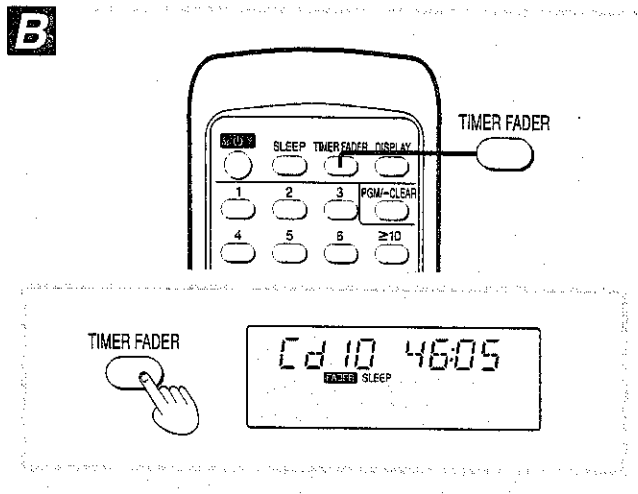
5 Press [⏻] to turn the unit off.
The unit must be off for timer to operate.
The record timer comes on about 30 seconds earlier than the set time.

To cancel the timer
Press **[⏲PLAY/REC]** when the unit is on to clear the timer indicators from the display.
(The timer comes on at the set time everyday if the timer is on).

(Continued on next page)

Timer





Using the Timer

To check the settings (when unit is off)
Press [CLOCK/TIMER].
The settings are shown in the following order:
Start time, Finish time → Source → Volume → Clock

To change the settings (when unit is on)
To change the times
Do steps 1, 2, 3, and 5.
To change the source or volume
1. Press [⏲ PLAY/REC] to clear the time indicator.
2. Make changes to the source or volume.
3. Do steps 4 to 5.

You can enjoy other sources after you have set the timer.
Turn the unit off before the timer's start time.

Note
The play and record timers cannot be used together.

A *The Sleep Timer*

Remote control only
Set the unit to stop and turn off after a certain time.

While listening to a CD, a cassette, or the radio.
Press [SLEEP] to select the time (in minutes).

Each time the button is pressed
→ SLEEP 30 → SLEEP 60 → SLEEP 90 →
← SLEEP OFF ← SLEEP 120 ←

To cancel
Press [SLEEP] to select "SLEEP OFF".

To check the remaining time
Press [SLEEP] once.
The remaining time is shown for about 5 seconds.

To change the time.
Press [SLEEP] to select the new time.

The sleep timer can be used in combination with the play and record timers. Make sure the unit is off before the play or record timer's set start time.

B *The Timer Fader*

Remote control only

Volume increases slowly to the set level when a timer turns the unit on and decreases slowly when the sleep timer turns the unit off.

Press [TIMER FADER] to display "FADER".
(All timers will be affected.)
Press again to cancel.

Note
This feature does not affect record timer's recordings.

Troubleshooting

Before requesting service, make the below checks. If you can't fix the system as described below, or if something not listed here occurs, refer to the enclosed directory to locate an Authorized Service Center convenient to you or contact your dealer.
Reference pages are shown as black circled numbers ⑤.

Common problems

"E" is displayed	Indicates incorrect operation. Read the instructions.
"UO1" is displayed	Replace the batteries or use household AC power. ⑤
"UO2" is displayed	Batteries haven't been inserted. Insert batteries or use household AC power. ("UO2" appears only if you have inserted memory batteries.) ⑤

CD

CD won't play or CD display is incorrect	Clean the CD ⑨ Wait for about an hour for condensation to clear and try again. Make sure the label is facing up. ⑨ Replace the CD if it is scratched, warped, or irregularly shaped. ⑨

Cassette deck

Recording not possible	Have the cassette's tabs been removed? Cover the holes with tape. ⑮
Poor sound quality	Clean the heads. ⑧

Radio

A lot of noise or difficult to tune	Interference may be caused by other equipment. Turn the other equipment off or separate this unit from them. Interference may occur if a remote control from other equipment is used.

Remote control

The remote control doesn't work.	Check the batteries are inserted correctly. ⑦ Replace the batteries if they are worn. ⑦
The unit can't be turned on from the remote control.	Use the power button on the main unit if you are using batteries to power the unit. ⑤ ⑦

Technical specifications

Radio

Frequency range
- **FM** 87.50–108.00 MHz (50 kHz steps)
- **AM** 522–1629 kHz (9 kHz steps)

CD player

- **Sampling frequency** 44.1 kHz
- **Decoding** 16 bit linear
- **Pickup**
- **Bølgelengde** 780nm
- **Laser-styrke** Ingen farlig stråling sendes ut
- **Beam source** Semiconductor laser (wavelength 780 nm)
- **No. of channels** 2 channel, stereo
- **Wow and flutter** Below measurable limit
- **D/A converter** MASH (1 bit DAC)

Tape recorder

- **Track system** 4 track, 2 channel, stereo
- **Monitor system** Variable sound monitor
- **Recording system** AC bias
- **Erasing system** Multi Pole magnet
- **Frequency response**
  - **Normal position** 50 Hz–14 kHz

General

Speakers
- **Full Range** 7 cm 5.4 ΩX2

Jacks
- **Output** PHONES: 3.5 mm stereo (16–64 Ω)

Power requirement
- **AC** 230–240 V, 50 Hz
  Power consumption: 17 W
- **Battery** 12 V (Eight R20, D, UM-1 batteries)

Memory back-up for computer/clock
6V (Four R6, AA,UM-3 batteries)

- **Dimensions (WxHxD)** 380 × 158 × 250 mm
- **Mass** 3.7 kg
  without batteries

Note
Specifications are subject to change without notice.
Mass and dimensions are approximate.

Matsushita Electric Industrial Co., Ltd.
Osaka 542-8588, Japan

En

RQT5677-B
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